

EXHIBIT 18

Worldwide Winter Diesel Fuel Quality Survey 2018

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Infineum Worldwide Winter Diesel Fuel Quality Survey 2018

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USA – East Coast

National standards and physical inspection data

The Americas

	National Standard	Maximum Observed	Mean	Minimum Observed	DIES 1801567	DIES 1802015	DIES 1802018	DIES 1802019	DIES 1802020	DIES 1802030	DIES 1802031
Cloud Point, °C		-11	-13	-15	-13	-12	-11	-12	-11	-14	-12
CFPP, °C		-13	-24	-34	-31	-34	-28	-29	-33	-15	-13
Pour Point, °C		-21	-30	-39	-30	-33	-36	-33	-33	-21	-24
HFRR, µm	520 (max)	506	385	219	365	337	219	375	421	316	449
Wax Content @ 10°C Below Cloud, wt%		2.5	2.1	1.8	2.1	1.8	1.9	2.2	1.9	2.3	2.5
Rancimat, hrs		>30	>25	8	27	27	21	>30	>30	>30	>30
Sulphur, ppm	15 (max)	8	7	6	8	8	6	7	8	6	7
Density @15°C, kg/m ³		857	844	834	835	836	835	834	835	855	850
Viscosity @ 40°C, cSt	1.9 - 4.1	2.62	2.45	2.14	2.14	2.49	2.62	2.58	2.50	2.41	2.47
Cetane Index ₂ Variable		53	48	44	49	51	53	52	51	45	46
Cetane Index ₄ Variable	40 (min)	52	47	42	48	51	52	52	51	43	45
Cetane Number	40 (min)	52	47	43	48	50	51	52	50	43	46
Distillation, °C IBP		168	164	159	164	166	168	168	162	166	161
T ₁₀		205	201	193	193	202	204	205	200	201	200
T ₂₀		222	218	208	208	219	221	222	217	218	218
T ₅₀		270	263	252	252	265	270	266	262	263	263
T ₉₀	282 - 338	333	324	317	319	333	331	327	330	319	324
T ₉₅		351	341	332	337	351	345	345	349	335	342
FBP		358	353	345	349	358	356	356	357	349	355
% FAME	5 (max)	6	1	0	0	3	6	1	0	1	0

USA – East Coast

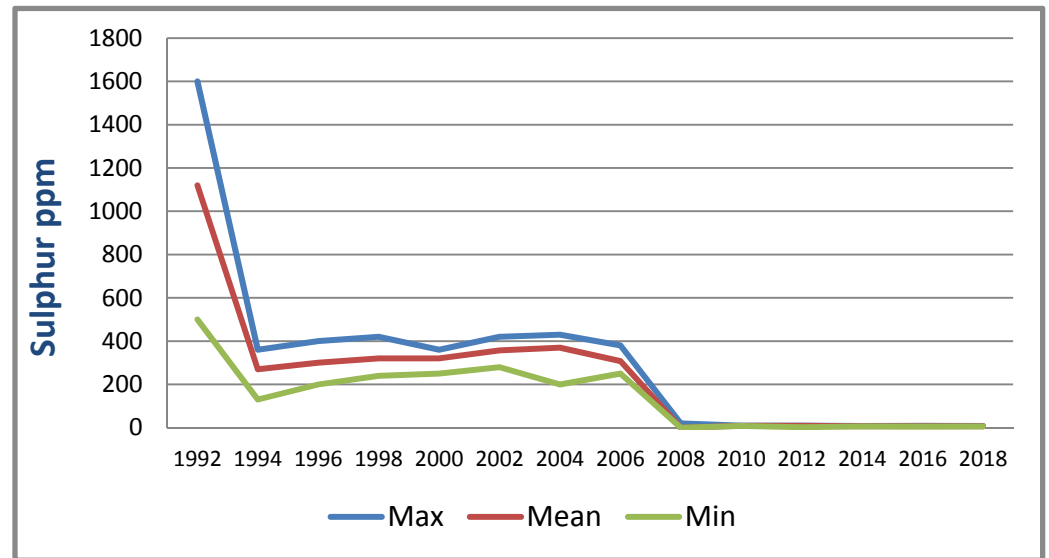
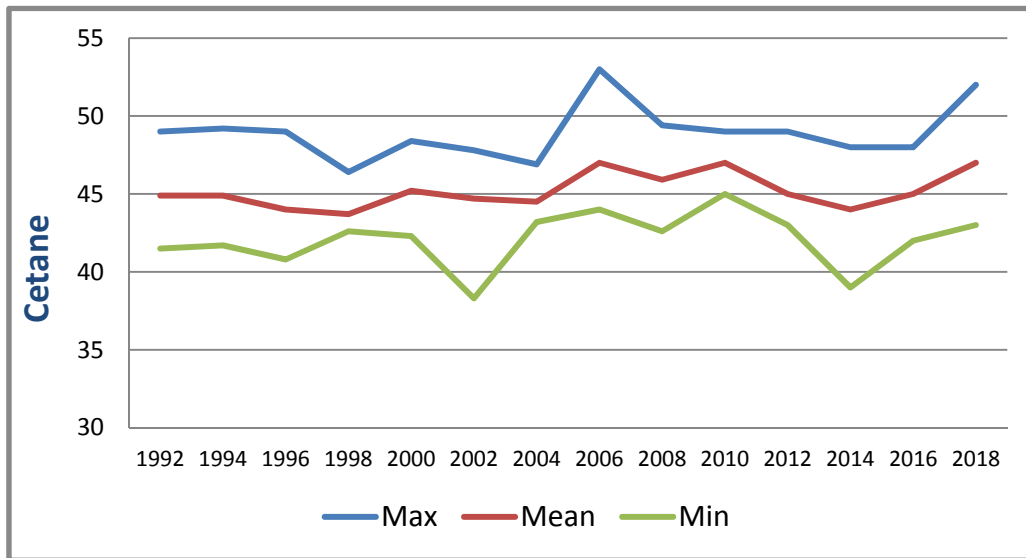
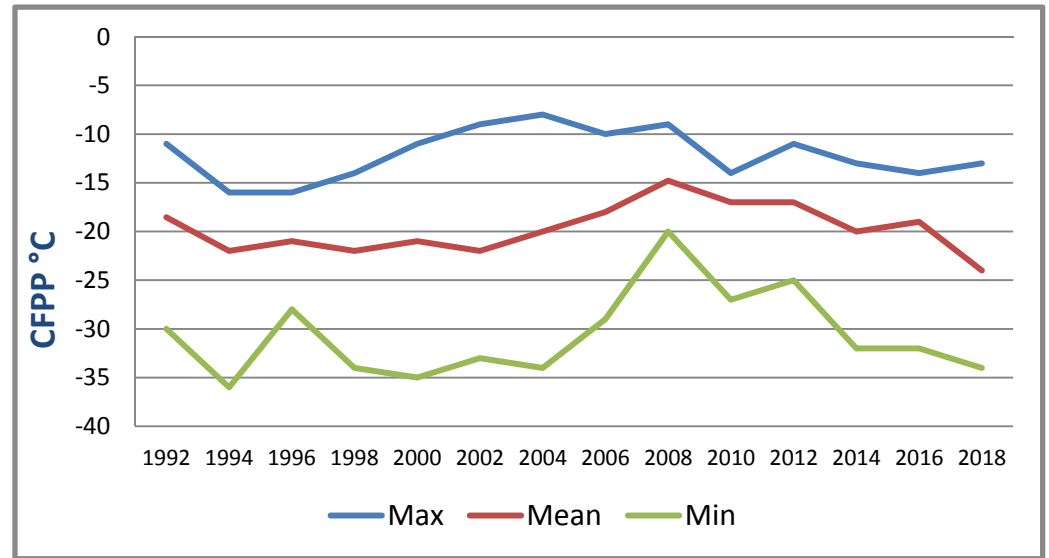
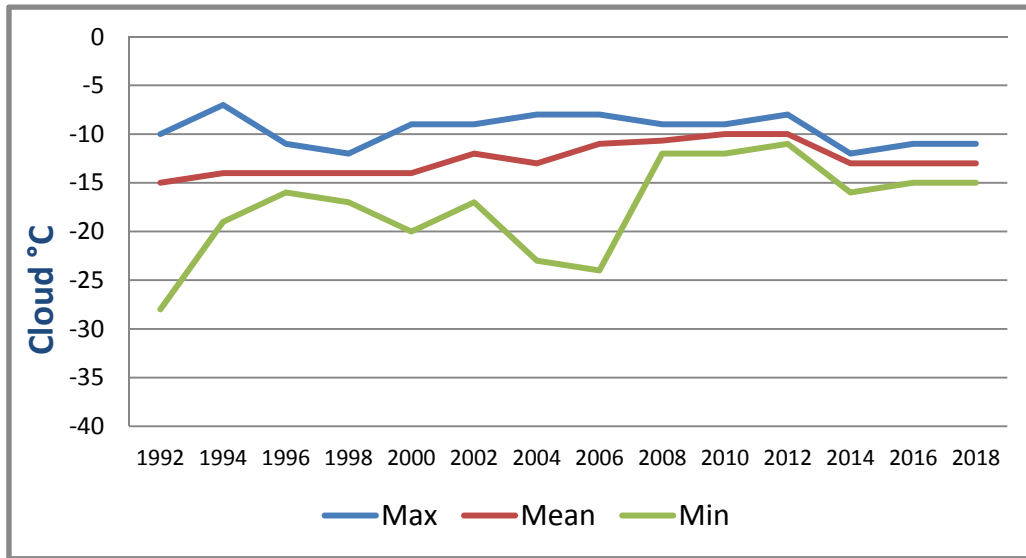
National standards and physical inspection data

The Americas

	National Standard	Maximum Observed	Mean	Minimum Observed	DIES 1802032	DIES 1802033	DIES 1802034
Cloud Point, °C		-11	-13	-15	-13	-15	-14
CFPP, °C		-13	-24	-34	-15	-32	-15
Pour Point, °C		-21	-30	-39	-27	-39	-21
HFRR, µm	520 (max)	506	385	219	506	421	441
Wax Content @ 10°C Below Cloud, wt%		2.5	2.1	1.8	2.1	2.1	2.3
Rancimat, hrs		>30	>25	8	>30	8	>30
Sulphur, ppm	15 (max)	8	7	6	7	6	6
Density @15°C, kg/m ³		857	844	834	844	857	856
Viscosity @ 40°C, cSt	1.9 - 4.1	2.62	2.45	2.14	2.56	2.38	2.37
Cetane Index ₂ Variable		53	48	44	48	44	44
Cetane Index ₄ Variable	40 (min)	52	47	42	48	42	43
Cetane Number	40 (min)	52	47	43	48	43	43
Distillation, °C IBP		168	164	159	167	163	159
T ₁₀		205	201	193	205	200	199
T ₂₀		222	218	208	222	217	217
T ₅₀		270	263	252	263	262	263
T ₉₀	282 - 338	333	324	317	326	317	319
T ₉₅		351	341	332	343	332	335
FBP		358	353	345	356	345	348
% FAME	5 (max)	6	1	0	0	0	0

USA – East Coast

The Americas



USA – Midwest

The Americas

National standards and physical inspection data

	National Standard	Maximum Observed	Mean	Minimum Observed	DIES 1801563	DIES 1801564	DIES 1801565	DIES 1801566	DIES 1801569	DIES 1801925	DIES 1801926
Cloud Point, °C		-7	-17	-55	-9	-9	-16	-55	-19	-19	-15
CFPP, °C		-9	-24	-55	-9	-10	-37	-55	-24	-23	-34
Pour Point, °C		-15	-32	-54	-15	-15	-39	-51	-30	-54	-33
HFRR, µm	520 (max)	526	390	198	460	442	378	452	443	491	217
Wax Content @ 10°C Below Cloud, wt%		3.8	1.9	0.6	3.2	3.1	1	N/A	1.7	0.8	1.8
Rancimat, hrs		>30	>25	6	>30	>30	>30	>30	17	>30	21
Sulphur, ppm	15 (max)	10	6	3	3	3	8	10	4	8	4
Density @15°C, kg/m ³		862	843	807	820	821	846	807	831	843	861
Viscosity @ 40°C, cSt	1.9 - 4.1	3.51	2.58	1.40	2.51	2.49	2.21	1.40	2.18	2.36	3.06
Cetane Index ₂ Variable		58	48	44	56	56	45	45	48	45	46
Cetane Index ₄ Variable	40 (min)	61	48	43	57	57	45	47	49	45	45
Cetane Number	40 (min)	60	48	42	55	55	42	44	49	46	44
Distillation, °C IBP		204	171	151	176	173	152	160	175	168	186
T ₁₀		239	209	178	209	207	194	178	202	201	224
T ₂₀		250	224	185	221	221	208	185	213	213	240
T ₅₀		282	261	209	261	261	251	209	246	249	277
T ₉₀	282 - 338	336	323	255	325	325	332	255	316	324	334
T ₉₅		358	340	270	343	344	356	270	335	346	347
FBP		367	352	290	355	354	367	290	351	359	354
% FAME	5 (max)	21	2	0	0	0	0	0	0	0	11

USA – Midwest

The Americas

National standards and physical inspection data

	National Standard	Maximum Observed	Mean	Minimum Observed	DIES 1801928	DIES 1801930	DIES 1801932	DIES 1801934	DIES 1801961	DIES 1801963	DIES 1801964
Cloud Point, °C		-7	-17	-55	-16	-13	-19	-14	-17	-16	-15
CFPP, °C		-9	-24	-55	-28	-18	-33	-18	-17	-33	-35
Pour Point, °C		-15	-32	-54	-27	-33	-33	-39	-27	-30	-42
HFRR, µm	520 (max)	526	390	198	220	497	230	205	458	207	456
Wax Content @ 10°C Below Cloud, wt%		3.8	1.9	0.6	2.1	2.2	1.8	3.8	1.3	1.8	1.7
Rancimat, hrs		>30	>25	6	21	>30	20	26	>30	22	>30
Sulphur, ppm	15 (max)	10	6	3	6	6	6	10	5	5	4
Density @15°C, kg/m ³		862	843	807	862	844	861	844	855	862	815
Viscosity @ 40°C, cSt	1.9 - 4.1	3.51	2.58	1.40	2.98	3.02	2.82	2.62	2.85	3.04	2.07
Cetane Index ₂ Variable		58	48	44	45	51	44	51	45	46	52
Cetane Index ₄ Variable	40 (min)	61	48	43	45	51	44	50	45	45	53
Cetane Number	40 (min)	60	48	42	44	49	43	51	44	44	54
Distillation, °C IBP		204	171	151	184	181	185	172	179	181	169
T ₁₀		239	209	178	223	223	221	210	217	225	191
T ₂₀		250	224	185	237	238	234	226	232	239	202
T ₅₀		282	261	209	276	276	270	276	266	277	239
T ₉₀	282 - 338	336	323	255	332	328	331	332	327	333	323
T ₉₅		358	340	270	346	342	344	339	345	346	343
FBP		367	352	290	355	351	351	348	357	357	347
% FAME	5 (max)	21	2	0	12	0	11	21	0	11	0

USA – Midwest

The Americas

National standards and physical inspection data

	National Standard	Maximum Observed	Mean	Minimum Observed	DIES 1802010	DIES 1802011	DIES 1802012	DIES 1802013	DIES 1802014	DIES 1802021	DIES 1802022
Cloud Point, °C		-7	-17	-55	-11	-16	-16	-13	-17	-22	-22
CFPP, °C		-9	-24	-55	-23	-17	-17	-18	-17	-25	-26
Pour Point, °C		-15	-32	-54	-36	-21	-21	-18	-21	-36	-33
HFRR, µm	520 (max)	526	390	198	413	456	454	484	445	488	452
Wax Content @ 10°C Below Cloud, wt%		3.8	1.9	0.6	2.4	2.6	2.4	3.6	2.6	0.7	0.7
Rancimat, hrs		>30	>25	6	>30	16	26	>30	16	20	13
Sulphur, ppm	15 (max)	10	6	3	8	7	5	7	6	3	3
Density @15°C, kg/m ³		862	843	807	851	850	846	821	851	849	844
Viscosity @ 40°C, cSt	1.9 - 4.1	3.51	2.58	1.40	3.51	2.66	2.55	2.83	2.62	2.46	2.34
Cetane Index ₂ Variable		58	48	44	50	47	48	58	46	45	46
Cetane Index ₄ Variable	40 (min)	61	48	43	51	46	47	61	46	44	46
Cetane Number	40 (min)	60	48	42	50	46	48	60	45	44	48
Distillation, °C IBP		204	171	151	204	171	159	165	167	161	168
T ₁₀		239	209	178	239	215	209	224	215	201	205
T ₂₀		250	224	185	250	233	225	241	231	219	219
T ₅₀		282	261	209	282	265	263	271	264	257	252
T ₉₀	282 - 338	336	323	255	335	318	323	319	318	316	312
T ₉₅		358	340	270	347	336	343	335	335	334	331
FBP		367	352	290	353	348	356	346	348	347	345
% FAME	5 (max)	21	2	0	0	0	0	0	0	0	0

USA – Midwest

The Americas

National standards and physical inspection data

	National Standard	Maximum Observed	Mean	Minimum Observed	DIES 1802023	DIES 1802024	DIES 1802025	DIES 1802026	DIES 1802027	DIES 1802028	DIES 1802029
Cloud Point, °C		-7	-17	-55	-20	-21	-20	-21	-22	-17	-22
CFPP, °C		-9	-24	-55	-41	-24	-27	-21	-45	-38	-45
Pour Point, °C		-15	-32	-54	-48	-33	-39	-39	-54	-50	-44
HFRR, µm	520 (max)	526	390	198	402	495	486	484	252	303	302
Wax Content @ 10°C Below Cloud, wt%		3.8	1.9	0.6	1.5	0.6	1.8	1.7	0.8	0.9	1
Rancimat, hrs		>30	>25	6	25	24	>30	>30	>30	23	>30
Sulphur, ppm	15 (max)	10	6	3	9	3	8	9	8	3	8
Density @15°C, kg/m ³		862	843	807	856	847	859	859	852	847	841
Viscosity @ 40°C, cSt	1.9 - 4.1	3.51	2.58	1.40	2.70	2.45	2.82	2.76	2.44	2.49	2.11
Cetane Index ₂ Variable		58	48	44	45	46	45	44	44	46	45
Cetane Index ₄ Variable	40 (min)	61	48	43	44	45	44	43	44	46	45
Cetane Number	40 (min)	60	48	42	44	44	44	44	45	45	44
Distillation, °C IBP		204	171	151	175	160	174	175	169	171	161
T ₁₀		239	209	178	213	203	215	217	200	204	191
T ₂₀		250	224	185	229	219	234	233	216	218	204
T ₅₀		282	261	209	265	256	269	268	258	256	245
T ₉₀	282 - 338	336	323	255	321	317	320	319	328	329	320
T ₉₅		358	340	270	338	335	337	336	344	347	338
FBP		367	352	290	351	351	351	350	354	359	354
% FAME	5 (max)	21	2	0	0	0	0	0	4	4	4

USA – Midwest

The Americas

National standards and physical inspection data

	National Standard	Maximum Observed	Mean	Minimum Observed	DIES 1802036	DIES 1802037	DIES 1802038	DIES 1802039	DIES 1802040	DIES 1802041	DIES 1802042
Cloud Point, °C		-7	-17	-55	-7	-13	-14	-10	-15	-14	-13
CFPP, °C		-9	-24	-55	-24	-13	-15	-13	-15	-18	-18
Pour Point, °C		-15	-32	-54	-39	-24	-27	-18	-18	-21	-21
HFRR, µm	520 (max)	526	390	198	445	353	526	472	426	198	221
Wax Content @ 10°C Below Cloud, wt%		3.8	1.9	0.6	1.9	2.1	2.1	2.4	3.8	2.1	2
Rancimat, hrs		>30	>25	6	>30	>30	>30	>30	23	26	6
Sulphur, ppm	15 (max)	10	6	3	8	5	8	3	6	4	5
Density @15°C, kg/m ³		862	843	807	829	841	835	833	827	849	846
Viscosity @ 40°C, cSt	1.9 - 4.1	3.51	2.58	1.40	2.39	2.52	2.41	2.70	2.36	2.84	2.69
Cetane Index ₂ Variable		58	48	44	53	49	50	52	53	48	48
Cetane Index ₄ Variable	40 (min)	61	48	43	52	48	49	53	54	48	48
Cetane Number	40 (min)	60	48	42	53	48	50	52	52	50	48
Distillation, °C IBP		204	171	151	161	167	168	172	167	181	170
T ₁₀		239	209	178	193	204	201	208	205	220	211
T ₂₀		250	224	185	210	220	216	224	220	234	227
T ₅₀		282	261	209	260	260	256	265	258	269	266
T ₉₀	282 - 338	336	323	255	336	327	324	330	314	329	328
T ₉₅		358	340	270	358	345	344	350	329	343	345
FBP		367	352	290	366	356	356	363	342	353	355
% FAME	5 (max)	21	2	0	0	0	0	0	1	5	2

USA – Midwest

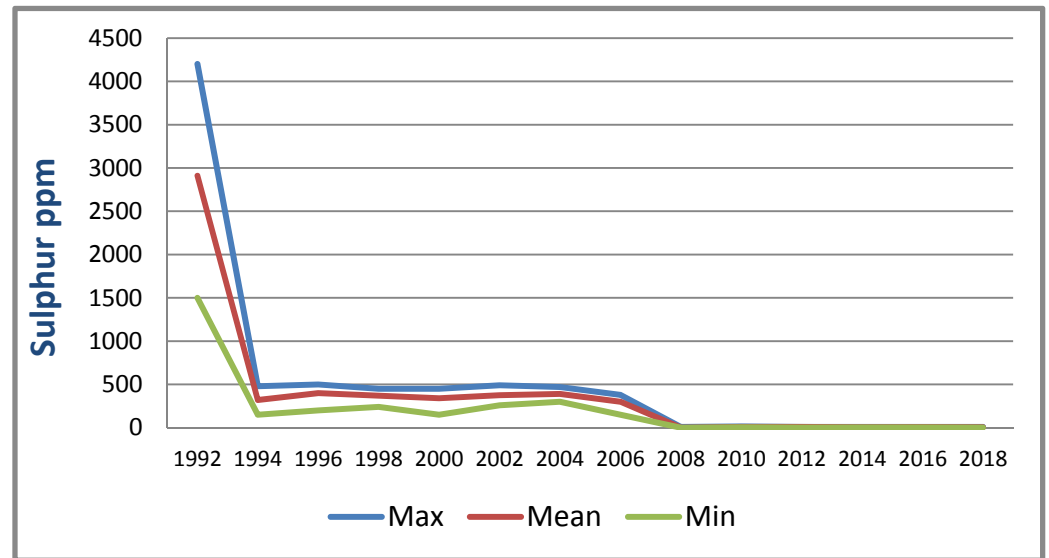
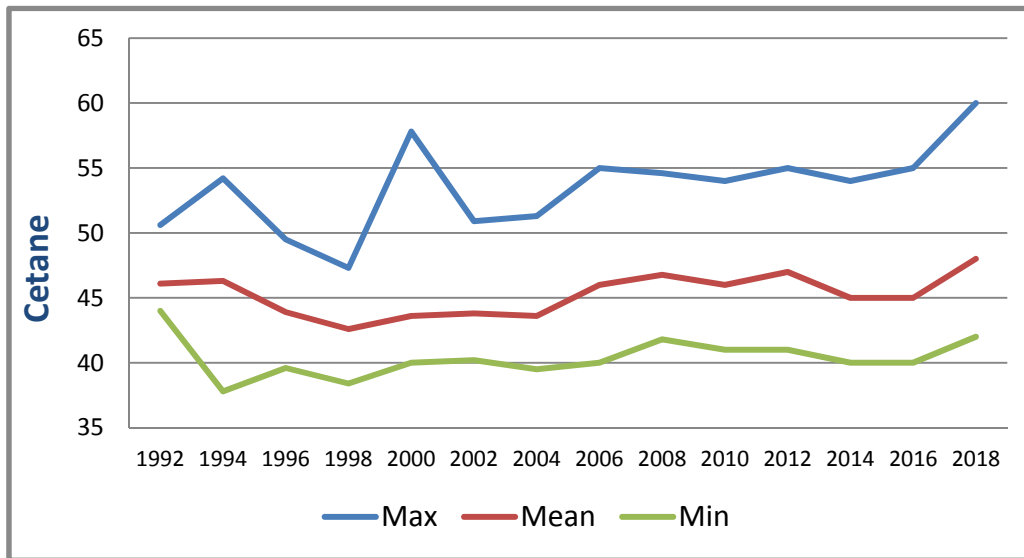
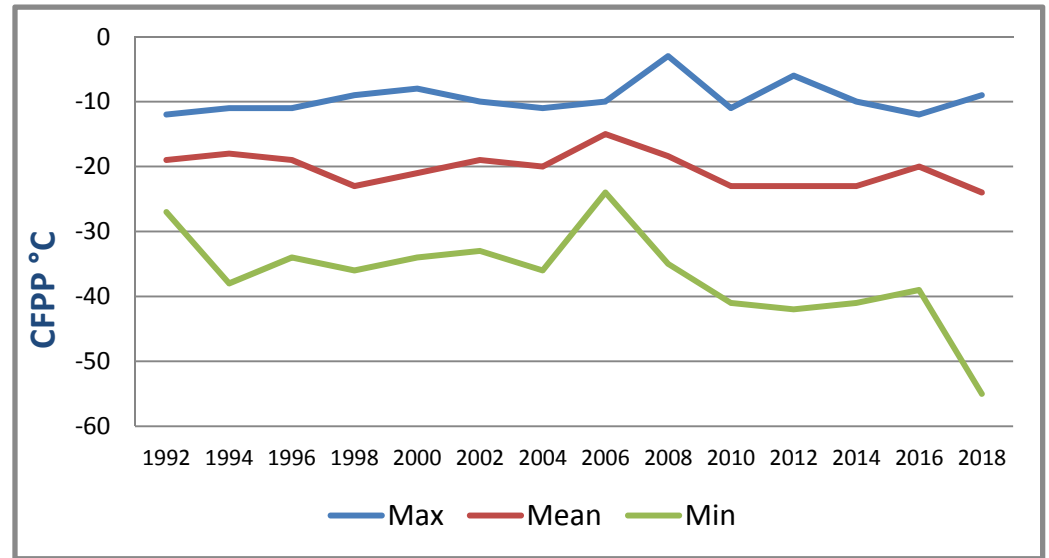
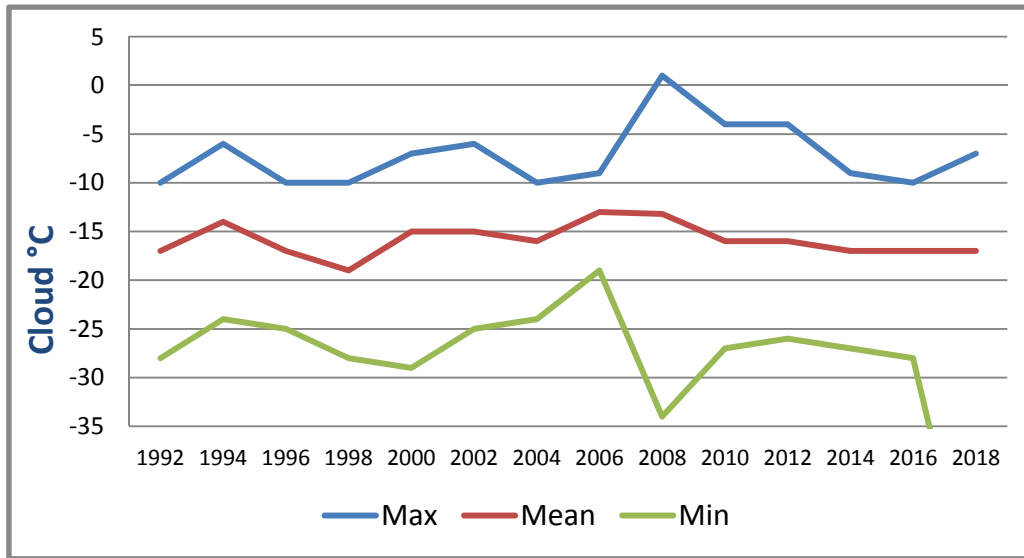
National standards and physical inspection data

The Americas

	National Standard	Maximum Observed	Mean	Minimum Observed	DIES 1802043	DIES 1802044
Cloud Point, °C		-7	-17	-55	-11	-12
CFPP, °C		-9	-24	-55	-13	-13
Pour Point, °C		-15	-32	-54	-21	-21
HFRR, µm	520 (max)	526	390	198	417	317
Wax Content @ 10°C Below Cloud, wt%		3.8	1.9	0.6	2	1.9
Rancimat, hrs		>30	>25	6	>30	30
Sulphur, ppm	15 (max)	10	6	3	6	7
Density @15°C, kg/m ³		862	843	807	845	846
Viscosity @ 40°C, cSt	1.9 - 4.1	3.51	2.58	1.40	2.60	2.59
Cetane Index ₂ Variable		58	48	44	49	48
Cetane Index ₄ Variable	40 (min)	61	48	43	48	47
Cetane Number	40 (min)	60	48	42	47	47
Distillation, °C IBP		204	171	151	158	151
T ₁₀		239	209	178	205	203
T ₂₀		250	224	185	221	221
T ₅₀		282	261	209	265	265
T ₉₀	282 - 338	336	323	255	331	332
T ₉₅		358	340	270	350	351
FBP		367	352	290	363	363
% FAME	5 (max)	21	2	0	0	2

USA – Midwest

The Americas



USA – West Coast

The Americas

National standards and physical inspection data

	National Standard	Maximum Observed	Mean	Minimum Observed	DIES 1801570	DIES 1801571	DIES 1801572	DIES 1801573	DIES 1801915	DIES 1801917	DIES 1801919
Cloud Point, °C		-8	-13	-24	-9	-8	-24	-11	-9	-8	-10
CFPP, °C		-10	-18	-35	-11	-10	-23	-16	-13	-13	-11
Pour Point, °C		-12	-23	-42	-12	-15	-36	-18	-15	-15	-12
HFRR, µm	520 (max)	526	448	289	326	289	477	506	516	503	363
Wax Content @ 10°C Below Cloud, wt%		3.5	2.4	1.3	3	2.4	3.5	1.3	2.2	1.8	3
Rancimat, hrs		>30	>25	4	20	4	>30	>30	26	>30	23
Sulphur, ppm	15 (max)	7	4	3	3	3	3	3	5	4	3
Density @15°C, kg/m ³		844	828	780	830	833	780	831	830	829	830
Viscosity @ 40°C, cSt	1.9 - 4.1	2.96	2.49	2.16	2.24	2.76	2.96	2.33	2.60	2.52	2.17
Cetane Index ₂ Variable		77	53	48	49	53	77	49	53	52	49
Cetane Index ₄ Variable	40 (min)	94	55	47	50	53	94	50	53	52	50
Cetane Number	40 (min)	78	53	46	52	54	78	50	52	52	52
Distillation, °C IBP		181	172	159	178	178	159	170	168	170	181
T ₁₀		262	211	197	208	216	262	197	199	201	208
T ₂₀		271	223	210	217	230	271	210	215	215	217
T ₅₀		282	258	245	248	265	282	249	263	257	245
T ₉₀	282 - 338	333	321	294	324	330	294	322	333	333	321
T ₉₅		354	337	299	341	347	299	349	349	354	339
FBP		366	350	315	354	359	315	366	362	365	352
% FAME	5 (max)	5	1	0	5	3	0	0	0	0	5

USA – West Coast

National standards and physical inspection data

The Americas

	National Standard	Maximum Observed	Mean	Minimum Observed	DIES 1801920	DIES 1801923	DIES 1802035
Cloud Point, °C		-8	-13	-24	-18	-21	-15
CFPP, °C		-10	-18	-35	-35	-21	-32
Pour Point, °C		-12	-23	-42	-42	-24	-36
HFRR, µm	520 (max)	526	448	289	518	526	455
Wax Content @ 10°C Below Cloud, wt%		3.5	2.4	1.3	1.6	3.4	2.2
Rancimat, hrs		>30	>25	4	>30	>30	>30
Sulphur, ppm	15 (max)	7	4	3	7	6	6
Density @15°C, kg/m ³		844	828	780	842	827	844
Viscosity @ 40°C, cSt	1.9 - 4.1	2.96	2.49	2.16	2.48	2.16	2.68
Cetane Index ₂ Variable		77	53	48	48	51	49
Cetane Index ₄ Variable	40 (min)	94	55	47	47	51	49
Cetane Number	40 (min)	78	53	46	46	48	48
Distillation, °C IBP		181	172	159	171	170	172
T ₁₀		262	211	197	203	203	211
T ₂₀		271	223	210	218	215	226
T ₅₀		282	258	245	258	249	266
T ₉₀	282 - 338	333	321	294	323	303	325
T ₉₅		354	337	299	338	317	340
FBP		366	350	315	350	329	350
% FAME	5 (max)	5	1	0	0	0	0

USA – West Coast

The Americas

